The following listing of the claims replaces all prior versions of the claims presented in the application.

1-13. (Cancelled)

14. (Previously presented) A method for inhibiting accumulation of amyloid β peptide in the brain of a patient suffering from Alzheimer's disease, comprising contacting in vivo soluble amyloid β peptide in the cerebrospinal fluid of said patient with an exogenous free-end specific antibody which is targeted to a free N-terminus of amyloid β peptide or a free C-terminus of amyloid β peptide A β 1-40, to inhibit the accumulation of said amyloid β peptide in the brain of said subject.

15-18. (Cancelled)

19. (Original) The method of claim 14, wherein the antibody is a monoclonal antibody, a humanized antibody, a chimeric antibody, a bispecific antibody, an artificial antibody, a scFv antibody or a F(ab), or fragment thereof.

20. (Previously presented) A method for inhibiting the neurotoxicity of amyloid β peptide in a patient suffering from Alzheimer's disease, comprising contacting in vivo soluble amyloid β peptide in the cerebrospinal fluid of said patient with an exogenous free-end specific antibody which is targeted to a free N-terminus of amyloid β peptide or a free C-terminus of amyloid β peptide A β 1-40, to inhibit the neurotoxicity of amyloid β peptide in said subject.

21-24. (Cancelled)

25. (Original) The method of claim 20, wherein the antibody is a monoclonal antibody, a humanized antibody, a chimeric antibody, a bispecific antibody, an artificial antibody, a scFv antibody or a F(ab), or fragment thereof.

26-54. (Cancelled)

55. (Previously presented) The method of claim 14, wherein the antibody is a monoclonal antibody targeted to the free N-terminus of amyloid β, wherein the first amino acid of

said N-terminus is aspartate at position 1 of amyloid β -peptide.

56. (Previously presented) The method of claim 20, wherein the antibody is a

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monoclonal antibody targeted to the free N-terminus of amyloid β-peptide, wherein the first amino

acid of said N-terminus is aspartate at position 1 of amyloid β -peptide.

57-71. (Cancelled)

72. (Previously presented) The method of claim 14, wherein the antibody is targeted

to the free C-terminus of the amyloid β - peptide A β 1-40.

73-74. (Cancelled)

75. (Previously presented) The method of claim 20, wherein the antibody is targeted

to the free C-terminus of the amyloid β - peptide A β 1-40.

76. (Cancelled)

77. (Previously presented) A method for inhibiting accumulation of amyloid β

peptide in the brain of a patient suffering from Alzheimer's disease, comprising contacting in vivo

soluble amyloid β peptide in the cerebrospinal fluid of said patient with an exogenous free-end

specific antibody which is targeted to a free N-terminus of an amyloid β peptide fragment truncated

at position 3, 11 or 17, to inhibit the accumulation of said amyloid β peptide in the brain of said

subject.

78. (Previously presented) The method of claim 77 wherein said free-end specific

antibody is specific for an amyloid \(\beta \) peptide fragment that begins with a pyroglutamate residue at

position 3.

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79. (Previously presented) The method of claim 77 wherein said free-end specific

antibody is specific for an amyloid β peptide fragment that begins with a pyroglutamate residue at

position 11.

80. (Previously presented) The method of claim 77, wherein the antibody is a

monoclonal antibody, a humanized antibody, a chimeric antibody, a bispecific antibody, an artificial

antibody, a scFv antibody or a F(ab), or fragment thereof.

81-82. (Cancelled)

83. (Previously presented) A method for inhibiting the neurotoxicity of amyloid β

peptide in a patient suffering from Alzheimer's disease, comprising contacting in vivo soluble

amyloid β peptide in the cerebrospinal fluid of said patient with an exogenous free-end specific

antibody which is targeted to a free N-terminal end of an amyloid β peptide fragment truncated at

position 3, 11 or 17, to inhibit the neurotoxicity of amyloid β in said subject.

84. (Previously presented) The method of claim 83 wherein said free-end specific

antibody is specific for an amyloid β peptide fragment that begins with a pyroglutamate residue at

position 3.

85. (Previously presented) The method of claim 83 wherein said free-end specific

antibody is specific for an amyloid β peptide fragment that begins with a pyroglutamate residue at

position 11.

86. (Previously presented) The method of claim 83, wherein the antibody is a

monoclonal antibody, a humanized antibody, a chimeric antibody, a bispecific antibody, an artificial

antibody, a scFv antibody or a F(ab), or fragment thereof.

87-92. (Cancelled)

93. (New) A method of obtaining an amyloid β-peptide-antibody complex which

comprises forming a composition consisting essentially of:

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(1) a monoclonal antibody, humanized antibody, chimeric antibody, bispecific antibody, artificial antibody, scFv antibody, F(ab) antibody, or a fragment of the foregoing types of antibodies, that specifically binds to an epitope within residues 1-5 of said amyloid β -peptide and

which binds said amyloid β -peptide but does not significantly bind amyloid precursor protein,

(2) cerebrospinal fluid; and

(3) said amyloid β -peptide.

94. (New) The method of claim 93, wherein said antibody is a humanized antibody

or fragment thereof.

95. (New) The method of claim 93, wherein said antibody is a chimeric antibody or

fragment thereof.

96. (New) The method of claim 93 wherein said cerebrospinal fluid consists of

cerebrospinal fluid of an individual suffering from Alzheimer's disease or having a predisposition to

develop Alzheimer's disease.

97. (New) The method of claim 93 wherein said amyloid β-peptide-antibody

complex is a soluble complex.

98. (New) The method of claim 96 wherein said amyloid β-peptide-antibody

complex is a soluble complex.

99. (New) A method of obtaining an amyloid β-peptide-antibody complex which

comprises forming a composition consisting essentially of:

(1) a monoclonal antibody, humanized antibody, chimeric antibody, bispecific

antibody, artificial antibody, scFv antibody, F(ab) antibody, or a fragment of the foregoing types of

antibodies, that specifically binds to an epitope within residues 34-40 of said amyloid β-peptide and

which binds said amyloid β-peptide but does not significantly bind amyloid precursor protein,

(2) cerebrospinal fluid; and

(3) said amyloid β -peptide.

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100. (New) The method of claim 99, wherein said antibody is a humanized antibody

or fragment thereof.

101. (New) The method of claim 99, wherein said antibody is a chimeric antibody

or fragment thereof.

102. (New) The method of claim 99 wherein said cerebrospinal fluid consists of

cerebrospinal fluid of an individual suffering from Alzheimer's disease or having a predisposition to

develop Alzheimer's disease.

103. (New) The method of claim 99 wherein said amyloid β-peptide-antibody

complex is a soluble complex.

104. (New) The method of claim 102 wherein said amyloid β-peptide-antibody

complex is a soluble complex.

105. (New) A method for reducing the quantity of amyloid β -peptide in the

cerebrospinal fluid of a patient suffering from Alzheimer's disease which comprises contacting said

amyloid β-peptide in said cerebrospinal fluid of said patient with a monoclonal antibody,

humanized antibody, chimeric antibody, bispecific antibody, artificial antibody, scFv antibody,

F(ab) antibody, or a fragment of the foregoing types of antibodies, that specifically binds to an

epitope within residues 1-5 of said amyloid β-peptide and which binds said amyloid β-peptide but

does not significantly bind amyloid precursor protein.

106. (New) The method of claim 105, wherein said antibody is a humanized

antibody or fragment thereof.

107. (New) The method of claim 105, wherein said antibody is a chimeric antibody

or fragment thereof.

108. (New) The method of claim 105 wherein said antibody binds amyloid β-

peptide that is soluble in the cerebrospinal fluid of said patient.

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109. (New) A method for reducing the quantity of amyloid β -peptide in the cerebrospinal fluid of a patient suffering from Alzheimer's disease which comprises contacting said amyloid β -peptide in said cerebrospinal fluid of said patient with a monoclonal antibody, humanized antibody, chimeric antibody, bispecific antibody, artificial antibody, scFv antibody, F(ab) antibody, or a fragment of the foregoing types of antibodies, that specifically binds to an epitope within residues 34-40 of said amyloid β -peptide and which binds said amyloid β -peptide but does not significantly bind amyloid precursor protein.

- 110. (New) The method of claim 109, wherein said antibody is a humanized antibody or fragment thereof.
- 111. (New) The method of claim 109, wherein said antibody is a chimeric antibody or fragment thereof.
- 112. (New) The method of claim 109 wherein said antibody binds amyloid β peptide that is soluble in the cerebrospinal fluid of said patient.
- 113. (New) A method for inhibiting the accumulation of amyloid β -peptide in a patient suffering from Alzheimer's disease which comprises contacting said amyloid β -peptide in the cerebrospinal fluid of said patient in vivo with a monoclonal antibody, humanized antibody, chimeric antibody, bispecific antibody, artificial antibody, scFv antibody, F(ab) antibody, or a fragment of the foregoing types of antibodies, that specifically binds to an epitope within residues 34-40 of said amyloid β -peptide and which binds said amyloid β -peptide but does not significantly bind amyloid precursor protein.
- 114. (New) The method of claim 113, wherein said antibody is a humanized antibody or fragment thereof.
- 115. (New) The method of claim 113, wherein said antibody is a chimeric antibody or fragment thereof.

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116. (New) The method of claim 113 wherein said antibody binds amyloid β -

peptide that is soluble in the cerebrospinal fluid of said patient.

117. (New) A method for inhibiting the accumulation of amyloid β -peptide in a

patient suffering from Alzheimer's disease which comprises contacting said amyloid β-peptide in

the cerebrospinal fluid of said patient in vivo with a monoclonal antibody, humanized antibody,

chimeric antibody, bispecific antibody, artificial antibody, scFv antibody, F(ab) antibody, or a

fragment of the foregoing types of antibodies, that specifically binds to an epitope within residues

34-40 of said amyloid β-peptide and which binds said amyloid β-peptide but does not significantly

bind amyloid precursor protein.

118. (New) The method of claim 117, wherein said antibody is a humanized

antibody or fragment thereof.

119. (New) The method of claim 117, wherein said antibody is a chimeric antibody

or fragment thereof.

120. (New) The method of claim 117 wherein said antibody binds amyloid β-

peptide that is soluble in the cerebrospinal fluid of said patient.